ALEX MACHIN-MAYES

GIS PROFESSIONAL

CONTACT

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EDUCTATION

MS, CARTOGRAPHY AND GIS

University of Wisconsin - Madison, 2021
Phi Kappa Phi | 4.0/4.0 GPA

**BA, HUMAN GEOGRAPHY
MINOR, GIS**

Western Washington University, 2012

SKILLS

- GIS Processing & Analysis
- Cartographic Visualization
- Geodatabase Management
- GPS Data Collection
- Web Map Development

PROFICIENCIES

GIS

ArcGIS Desktop, AcrGIS Pro, ArcGIS
Online, Collector, Model Builder,
ArcPy, Web AppBuilder, COGO,
ArcGIS Developer, QGIS

Geodatabases

Parcel Fabrics, LGIM, schemas, SQL
expressions, topologies, coded value
domains, joins, relationships

Related Tools

Adobe Creative Suite, Mapbox Studio,
Trimble Pathfinder, Excel, U.S. Census
data mapping, urban & international
geography studies, research & writing

Working Knowledge

ArcGIS API for JavaScript, HTML, CSS,
JavaScript, Bootstrap, Python, SQL,
Leaflet, GitHub, CAD

PROFILE

Self-driven and resourceful GIS expert with six years professional experience
and proven ability to excel while working remotely. I bring a geographic
perspecitive and wide-ranging knowledge in GIS, geoprocessing, geodatabases,
cartography, and GPS. I am seeking a remote position to contribute my skills
and experience while continuing to learn and expand my skill set.

EXPERIENCE

GIS CONSULTANT

Falcon Cultural Resources | Remote   2019-Present

- Produce archaeological site maps and shapefiles for reports to the DAHP.
- Utilize aerial, LiDAR, USGS topographic basemaps and web services to give
  historical and ecological context to site areas.
- Provide GPS data processing and support for field data collection.
- Conduct viewshed analysis to visualize prominence of proposed development.

GIS PROPERTY SPECIALIST

Swinomish Indian Tribal Community | La Conner, WA   2014-2017

- Responsible for providing maps, analysis, database maintenance and support
  to a wide range of government departments and domain experts.
- Contributed to building and maintaining complex databases of government
  assets and features, including: zoning, parcels, buildings, roads, utilities, and
  natural and cultural resources.
- Produced maps and property updates by researching and interpreting land
  surveys, as-builts, legal property descriptions, and county assessor records.
- Managed and maintained GIS data within the Planning Department system
  and published data for interdepartmental use to ArcGIS Online.
- Worked with Department of Environmental Protection to survey and map soil
  conductivity in the assessment of suitability for crops and restoration efforts.
- Collaborated with project managers to design and configure custom database
  schemas and ArcGIS Collector apps, enhancing GPS data collection efficiency.

GIS TECHNICIAN

Independent Contractor | Bellingham, WA   2012-2014

- Created a large forest roads database for salmon habitat restoration initiative
  using Road Maintenance and Abandonment Plan documents, georeferencing
  maps, and analysis of LiDAR and NAIP aerial imagery for digitization.
- Digitized the Nooksack River active channel footprint at large scale for an
  update to the National Hydrography Dataset.
- Assisted in the development of a comprehensive geodatabase and study
  template for studying steelhead habitat health indicators for the Northwest
  Indian Fisheries Commission.